BIOS

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A Message From Your President

By Susan Patey-LeDrew, P.Biol.

I think every President's report begins with a statement of shock and awe at how quickly the year has passed, and I cannot agree more. This year has provided me with a tremendous personal and professional growth experience which I would not have been able to accomplish without the passion and commitment of everyone involved. As I reflect, I realize how supportive the Board, committees, contractors and membership have been in trying new things in this year of "out of the ordinary" items.

The first one that comes to mind is the partnership with the Prairie Conservation Forum to organize the 10th Prairie Conservation and Endangered Species Conference (PCESC) in Red Deer, February 19-22, 2013. Not only was this a partnered endeavor, but it gave the volunteers experience in planning a much bigger conference for a more diverse audience. This conference attracted almost 400 attendees, and 105 speakers over 2.5 days of concurrent sessions (compared to our typical annual conference of ~200 attendees, and ~20 speakers over 2 days with single sessions). ASPB members networked with a diversity of delegates from all walks of life.

This partnership also gave us the opportunity to be strategic in trying to get the conference planning on to a two year planning cycle in order to minimize volunteer burnout. Planning for the 2014 Edmonton conference is well underway (April 9-10, 2014 - mark your calendars). Check the ASPB website and page 7 of this edition of BIOS for the Call for Papers for the "Endangered Regulatory Bodies: Exploring Species, Professionals, and Regulations in 2014 and Beyond".

While in the heat of planning the PCESC, the Board began addressing the governance of the Board themselves; to move from a Board of "doing" to a Board that "governs". As the ASPB grows, it is becoming more and more imperative that the Board is more efficient in its own management and to explicitly define and communicate the vision and steps to achieve our goals. The Board has been putting in extra effort and this will not be a quick process. Work will continue into the next year, but it is the responsibility of the Board to the ASPB members to ensure the organization has the systems in place to thrive and grow in the future.

Another new item that the Board has been discussing requires the assistance of the entire membership, and I hope that all of you will give this some consideration and provide your input. Please see the article by Chris Clement on page 2 in this edition of BIOS about possible new categories of membership.

As I look forward, the Board will continue to refine its governance processes to help set direction for ASPB, and to be in a position to move forward with suggestions provided by the membership in the survey conducted last fall. The Board will continue with member outreach via the enhanced mentorship program, the communications committee, and the professional development committees. An item that also arose out of the membership survey is enhanced membership benefits – we have signed an agreement with TD Insurance Meloche Monnex providing all members with preferred rates on home and auto insurance (see the article on page 7), and the Board is committed to working with additional partners to bring further value to your membership.

I cannot thank this year's Board enough for taking a journey with me in this year of unconventional tasks. I am honoured that such a group of respected professionals gave every item on our agendas, no matter how pragmatic or theoretical, your thorough consideration and review. Your wisdom, mentorship and insight were integral in the growth I have experienced this year and I will be eternally grateful. This year's Board says goodbye to several passionate biologists - Laurie Hamilton, Gerry Haekel, Charles Macmichael, Darrell Jobson and Bruce Greenfield, but I am renewed by the list of volunteers who have put their name forward for next year's Board. I invite all members to volunteer in the various committees or pass on any ideas you think would benefit the membership.

Thank you for allowing me to serve as president this year and join me in welcoming our new president, Karoliina Munter.

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BIOS is published for the enjoyment and benefit of the members of the Alberta Society of Professional Biologists, and for those interested in the field of professional biology. Articles or comments are welcomed and should be sent to the editor, Linda Zimmerling at lindazim@shaw.ca.

Introduction of New Categories to ASPB Membership: Technologist and Non-applied Biology Experience

By Chris Clement, P.Biol.

The ASPB is governed by the Professions and Occupational Associations Registration Act (POARA) which is administered by the Department of Alberta Enterprise and Advanced Education (AEAE). AEAE will be opening up POARA for revisions soon and inquired whether the Biologists would like any revisions to their sections of the Act. Some other professional organizations governed by POARA (such as the professional chemists) are including new categories such as a technologist. As we all know, legislation does not change quickly or frequently, so the Board has given this opportunity some thorough consideration.

This is a great opportunity to add technologists to the ASPB membership. Some of our members who teach at technical institutions have been integral to informing the Board. This category would apply to those with 2 year or 60 credit diplomas (not certificates). Techs would not have the same sign off capabilities as the PBiols but would have their own scope of work (which is yet to be defined). They would have the same regulatory obligations and code of ethics. Allowing Biology Technologists membership in the ASPB would allow for better cooperation between scientists and technologists regarding divisions of responsibility and signing off (by professionals) on documents produced by technologists. It would provide an enhanced level of confidence in the "profession" for employers, give more credibility to the ASPB and raise the stature of technologists. Finally, it would be better for the ASPB to provide regulatory influence (over technologists) rather than some other organization (Alberta Institute of Agrologists, ASET), and it would allow us to increase our membership.

Another category the Board would like the membership to consider is having a separate category to encompass those who meet the education requirements for acceptance but do not necessarily meet the work experience requirements, such as those whose work experience is primarily environmental site assessments. The Registration Committee turns away about 30% of the applicants to the ASPB on this criterion alone. As with the inclusion of a technologist category, this inclusion will only enhance the profession and the organization.

This process is still in development, and the Ad-hoc committee of the Board welcomes feedback from the membership on this important potential change to ASPB. The Ad-hoc committee includes Chris Clement (President Elect and chair of Ad-hoc Committee), Gerry Haekel (Director), Dave Critchley (regular member and instructor at NAIT), Robin Leech (regular member and former Executive Director and former instructor at NAIT) and Susan Patey LeDrew (President). There will be an opportunity to discuss the proposed changes at the Annual General Meeting, April 10th in Calgary and Edmonton (details at www.aspb.ab.ca). Any inquiries can be directed to the ASPB Coordinator, Jen Sipkens at jsipkens@aspb.ab.ca, or you can check out the discussion posting for this topic on the member's only area of the ASPB website.

ASPB in Universities

By Aynsley Shirriff, BIT and Alison Beal, BIT

Since September of 2012, the ASPB has increased its presence in universities across Alberta. We attended three career fairs, one at the U of A on September 26, 2012, one at the U of L on October 3, 2012 and one at the U of C on February 5, 2013. The ASPB is gradually becoming better known among students and, with the interest received at the student events, we expect to see the number of student members increase. We are currently organizing student outreach events for the next school year. Ideas for fall events include holding an information session to discuss with students what it means to work as a biologist, and what courses are required to apply to become a Biologist in Training and a future Professional Biologist. Students interested in attending an information session are encouraged to contact the ASPB via email at pbiol@aspb.ab.ca .

ASPB 2013 AGM – April 10th

ASPB AGM#38 – April 10th – Calgary and Edmonton

Remember to register and attend the ASPB 2013 Annual General Meeting – Edmonton and Calgary locations.

ASPB thanks Field Law for sponsoring this event.

Date: Wednesday, April 10, 2013

Time: 8:00 - 10:00 a.m. (Breakfast at 7:30)

Calgary Location: Kahanoff Centre, 200 12 Ave SE

Edmonton Location: Room W202, NAIT Main Campus

Visit www.aspb.ab.ca to register and to see more information about the AGM and details about the broadcast between Edmonton and Calgary.

Agenda

1.0 Call to Order

2.0 Adopt Agenda

3.0 Approval of minutes of Annual General Meeting #37.

4.0 The President's Address

5.0 Annual Reports

6.0 New Business

- 6.1 Resolution to retain auditor
- 6.2 Resolution to approve 2012 audited financial statements
- 6.3 Resolution to revise bylaws
- 6.4 Discuss Options for adding Technical level to membership categories

7.0 Introduction of the new Board of Directors

- 7.1 Resolution to destroy ballots

8.0 Adjournment

Attendance at the AGM is free and open to all ASPB members.

Proposed Motions, 2012 Audited Financial Statements and Annual Report

In an effort to be more environmental friendly the Alberta Society of Professional Biologists will not be printing or mailing the proposed motions and revisions to the bylaws, the 2012 audited financial statements or the 2012/2013 Annual Report. All of these are available on the website for your review.

Board of Directors Nominations Ballot

All Full (P.Biol.) members of the ASPB have been mailed a ballot to vote for five (5) Directors at Large. Please return the ballot in the enclosed envelope. Ballots must be received in the office by 5:00 pm on April 8th, 2013 in order to be counted.

ASPB 2014 Conference

Endangered Regulatory Bodies:

Exploring Species, Professionals, and Regulations in 2014 and Beyond

April 9 and 10, 2014, Edmonton, Alberta

The Alberta Society of Professional Biologists' (ASPB) 2014 conference will be held in Edmonton, Alberta. Recent changes in federal and provincial legislation have led to new assessment requirements, additional areas and species requiring protection, and uncertainties for biologists, government agencies and industry in Alberta. The ASPB invites submissions for presentations describing recent challenges and new approaches to dealing with and managing changes in regulatory acts. Submissions may be examples from Alberta or elsewhere if demonstrated applicability to regulatory acts in Alberta.

This conference will provide attendees interested or directly involved in environmental impact assessments or environmental compliance monitoring with a forum to discuss current issues and challenges in Alberta. Share your successes and challenges, facilitate new ideas, contribute to the discussion and debate the issues!

Contributions are not limited to, but may focus on the following:

- Updates and changes to the Fisheries Act, Navigable Waters Protection Act, the Alberta Water Act and the Environmental Protection and Enhancement Act;
- Changes to regulatory bodies and implications of changes to the Canadian Environmental Assessment Act;
- The Alberta Wetland Policy;
- Current status, research, collaboration and/or management of species at risk or species of management concern and COSEWIC updates;
- Examples of collaboration for managing environmental and regulatory issues;
- Areas of professional practice (liability, integrity, ethics, competency, clients, stakeholders, timelines, etc.).

Call For Papers

The 2014 ASPB Conference Committee welcomes paper or poster abstract submissions for review. Please see the article on page 7 and the ASPB website www.aspb.ab.ca for more details.

ASPB 2014 Conference Poster Design Contest

The 2014 Conference Planning Committee is accepting submissions for an original poster design to be used in marketing the conference (printed materials and on the ASPB website). The poster design must reflect the theme and incorporate the title of the conference. Poster submissions should be standard letter size (8 ½ x 11 inches), portrait orientation, and include the designer's name on the artwork. **The winner will get to choose a $250 gift card to Mountain Equipment Co-op or a free registration to the 2014 conference!** Submission deadline is May 17, 2013 and the winner will be announced in the ASPB e-newsletter in June.

Contest is open to all ASPB members in good standing. Entries must be emailed in Word, Publisher or Adobe InDesign file format to jsipkens@aspb.ab.ca by May 17, 2013. All participants will be sent an email indicating that the submission has been received and whether we were able to view the file. The winner will be contacted by May 31, 2013. ASPB reserves the right to use all submissions at its discretion for promotion and marketing.

ASPB Upcoming Workshops and Events

Upcoming ASPB Workshops and Events in April

Mark your calendars and keep checking the ASPB website for updates! Follow us on Twitter: @AlbertaBiology to get the latest news and updates! Event updates will also be tweeted as they become available.

Western Painted Turtle: Status and Challenges to Population Maintenance - Edmonton
Presenter: Dave Law and Joe Coutts, The Alberta Turtle and Tortoise Society
When: April 4th, 5 pm
Where: NAIT, Room W202

Winter Tracking of Falcons - Edmonton
Presenter: Jason Duxbury
When: April 11th, 5 pm
Where: NAIT, Room W202

Rare Plant Predictive Modeling - Calgary
Presenter: Laurie Hamilton, B.Sc., PBiol, M.Sc. Candidate
When: April 23rd, Noon - 1 pm
Where: Husky Conference Centre

ASPB Hosts Wetland Workshop - May 9th

When: Thursday, May 9, 2013, 8:00 am to 4:15 pm
Where: Cochrane Ranche House, Cochrane, AB (Details supplied to Paid Registrants)

PROGRAM UPDATE
The morning session consists of a 3 hour technical wetland delineation primer workshop, presented by Bob Pierce of the Wetland Training Institute.
The afternoon session consists of several regulatory/policy presentations, such as:

- Wetland Policy Update from Thorsten Hebben, AESRD, and
- Wetland Compensation from Craig Bishop, Ducks Unlimited Canada
- *Water Act* approval conditions for wetlands, Green Zone from Larry Kuchmak, AESRD

This year we are holding a one hour working session, in the late afternoon, designed to develop a list of potential qualifications/ criteria for a **Qualified Wetland Scientist**. A summary of the resulting list of qualifications will be reviewed by the ASPB membership, the ASPB Wetland Steering Committee and the ASPB Board of Directors in the hopes of developing some guidance for our members and possible creation of a beneficial management practice guide in this area.

Workshop registration is available on-line at www.aspb.ab.ca

Sign up early as space is limited and last year's workshop filled up quickly!

ASPB Hosts Introductory Plant ID Workshop

PRESENTED BY: Amy Griffiths, Mari Decker, Laurie Hamilton and Mike Russum

Contact Laurie at laurie@zanshinenvironmental.com for inquiries.
When: Saturday, May 25, 2013, 9 am to 5 pm
Where: Cochrane, AB (Details supplied to Paid Registrants)

This one-day workshop consists of a practical and theoretical introduction to vascular plant identification. Focus is on learning morphology and terminology, and using taxonomic keys and field guides to learn species of a few main plant families in Alberta. This course is designed for people with little or no plant identification experience, and for those who want to refresh their taxonomy and terminology.

Registration includes lunch, refreshments, and manuals. Sign up early as previous workshops have filled very quickly.

Registration is available on-line at www.aspb.ab.ca

REGISTRATION & PAYMENT DEADLINE ~ May 17, 2013
Registration Fees*
ASPB Member $85.00
Non-member $100.00
* Hand lenses will be used throughout the workshop. If you do not already have a hand lens, you can purchase one for an additional $12.00. Just select the fee that includes the hand lens cost, when registering on-line. A small number of lenses will be available to borrow for the duration of the workshop.

Class Size Limited to 25 registrants

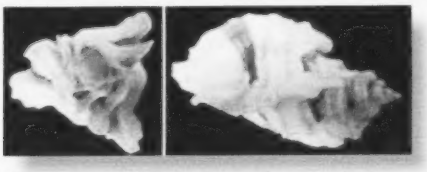
ASPB 2012 Graduate Student Endowment Scholarship Recipients

University of Alberta - Nicole Webster

Nicole Webster enjoys a windy ride back from the field. Photo Credit: Jared Sykes

Thesis Topic: Gastropod varix formation and growth

I am studying various aspects of the development, growth, and evolution of shell ornamentation. To accomplish this, I am focusing on the predatory marine snail family Muricidae, famous for elaborate shell ornamentation, especially varices, which are periodic longitudinal ridges or flanges on the shell. I hope to develop a picture of when and how this structure evolved, as well as how individual snails control the placement and alignment of varices on their shell. In understanding shell ornamentation, we can gain strong insights into shell growth and function as a whole.



Ceratostoma foliatum from the Hazel Jones Collection. Photo credit: Nicole Webster.

University of Calgary – Kiva Ferraro

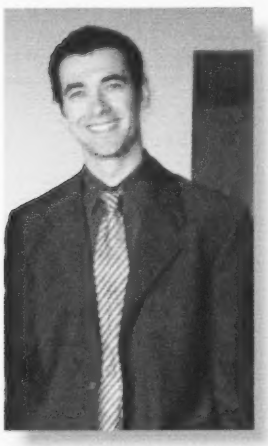


Photo credit: Natasha Beierback

I am interested in natural antioxidants produced by plants. Proanthocyanidins are flavonoid polymers commonly found in a wide variety of plants, foods and drinks. Growing recognition of the health benefits associated with consumption of proanthocyanidins (PAs) has led to considerable efforts to characterize the regulatory and biosynthetic processes responsible for the accumulation of PAs. Despite successes in elucidating most of the PA biosynthetic pathway, little is known about the biochemistry and molecular biology of PA biosynthesis in crop species. *Pisum sativum* (pea) is an important agronomic crop and centuries of breeding has led to the development of many different varieties, some of which accumulate high levels of PAs in the seed coats. My work aims to provide new knowledge useful to plant breeders generating new pea varieties and to address some of the remaining questions in PA biosynthesis.

University of Lethbridge – Rachael Adams

Thesis topic: "Landscape genetics of a North American songbird, the black-capped chickadee (*Poecile atricapillus*)." The objective of my research is to understand the influence of natural and anthropogenic landscape features on gene movement and population structuring of a resident songbird. Molecular techniques (DNA sequencing, genotyping) combined with landscape-level data (Geographic Information Systems) will be used to assess the underlying genetic diversity and identify specific landscape/ environmental barriers restricting dispersal and gene flow.

Photo used with permission

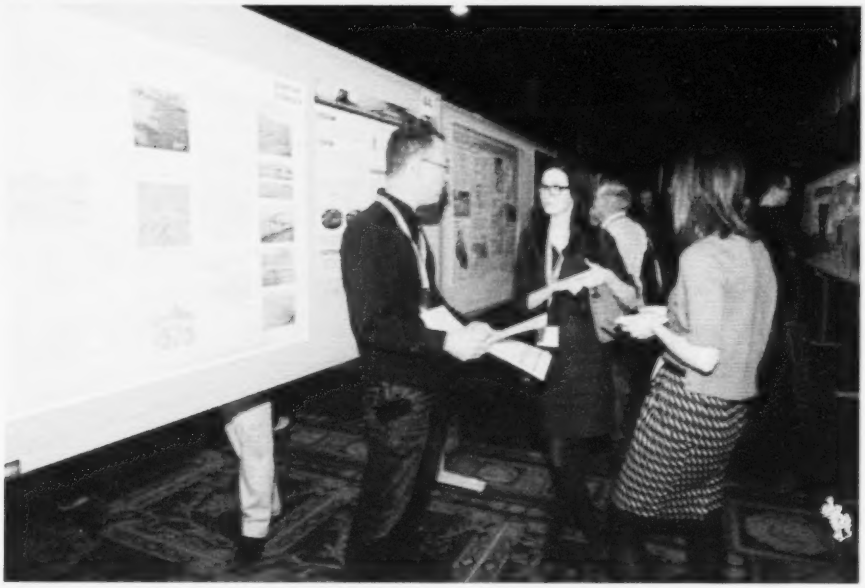
University of Lethbridge – Brad van Paridon

Photo used with permission

My research is centered on using molecular biology techniques and the development of genetic markers to study important population genetic characteristics of an invasive liver fluke, *Dicrocoelium dendriticum*, of wildlife and cattle in southern Alberta, specifically the Cypress Hills Provincial Park. We intend to use population genetics techniques to determine the source of this invasive population and also investigate the transmission dynamics of this parasite within and among the wildlife and domestic hosts. We will also look at questions surrounding the evolutionary biology of this parasite that alters the behaviour of one of its intermediate hosts.

10th Prairie Conservation and Endangered Species Conference: A Review

By Anonymous



Paul Jungnitsch of Alberta Agriculture and Rural Development is an author for Poster 44. Stephanie Simpson and Dawn Trautman (in the checkered skirt) in photo. Photo credit: Myrna Pearman.

The ASPB and Prairie Conservation Forum put on the 10th annual Prairie Conservation and Endangered Species Conference this year in Red Deer, Alberta. Focusing on prairie conservation as the title suggests, the conference hosted talks on improved rangeland management, research studies on endangered species, government and non-government environmental management programs, reaching out to the younger generations through environmental education, planting and vegetation studies and even some innovative economic approaches to achieving conservation goals. I saw ranchers and farmers, academics, consultants, proponent's delegates, government and NGO employees mingling together and sharing a common interest – conserving Canada's native prairie landscape. I, and many others, came to this conference to learn, to share and to find partnerships for future conservation goals.

There was such a variety of subject matter covered during the conference that it was very difficult to choose which sessions to attend. Attendees showed enthusiasm for the Grassland Vegetation Inventory tool that we all viewed in 3D. The live birds of prey in the exhibition hall provided all the more support for the many sessions covering avian research. We learned there was such a thing as frog decoys – I know the Duck Dynasty family like to eat frogs – they may be interested. There were intriguing talks on cooperative ranching programs incorporating prescribed fires, rotational grazing and strategic fencing for healthier grass cover leading to heavier cows for market. We are approaching the desired balance by finding ways that acknowledge multiple perspectives.

I listened to an interesting presentation about multi-species management on rangeland or native grasslands. One must take all of the species' restricted activity periods into account before burning or haying. Sometimes this leaves little time for the work that needs to be done, so planning is necessary if one wants to be a good steward of these lands. Lessons can be learned through evaluating what we thought was a good idea – burning in the spring was considered best so as to avoid harming orchid succession; but, in turn, it was discovered this was harming the poweshiek butterfly population. A monitoring plan is key to catching these trends. A similar conclusion regarding the importance of monitoring was presented for native trout species. Hybridization of native bull trout needs to be monitored and areas never sampled, such as that near Banff, should be the target for future research. Whether it was species vulnerability to climate change, fragmentation of the landscape, encroaching shrubby or tree vegetation – all were covered in a stimulating way.

Many talks covered land changes and ways to approach them. Sessions on seeding, plug and spring planting techniques and species selection highlighted keys to successful re-establishment of vegetation. The Action for Agriculture video provided a clear presentation of the current condition of our grassland landscapes, as well as future projections, based on how the growing population will continue to alter the landscape. Major metropolitan areas are expanding: Calgary is encroaching on Alberta's remaining dark soil and is projected to continue. To conserve these areas, these areas must be viewed as having greater value to people than that derived from their disturbance. The economic aspects of conservation and land management decisions were very interesting.

Other very interesting relationships were presented such as the purple prairie clover attracting a lot of bees and other pollinators; the natural filtering and water storing benefits of wetlands and their functional uplands; productive soils encouraging good vegetative growth; vegetation sequestering carbon, ensuring our water cycle stays in check; and keeping riparian areas intact with great root masses to keep our watercourses healthy. As our prairie Canada landscape changes and, if the projections are right, decreases, even finding appropriate sites for compensation wetlands could become an issue, not only for scarcity of land and water tables, but for finding the right fit with what types of land conservation management programs are already in place.

For me, the key concepts of the conference were multi-species management, cooperative programs and also perhaps trans-boundary watershed management or banking tools and the economics of conservation. Essentially, our aim should be to encourage society to minimize disturbance and conserve the land because of the benefits we would reap. If and when disturbance prevails, we should aim to construct our compensation measures in such a way that makes the most ecological sense. With so many great programs, concepts and research studies presented at this conference, we should be able to find ways to tie them all together to manage this landscape in a more sustainable way.

Endangered Regulatory Bodies
Exploring Species, Professionals, and Regulations in
2014 and Beyond
April 9 and 10, 2014

CALL FOR PAPERS AND POSTERS

The 2014 ASPB Conference Committee welcomes paper or poster abstract submissions for review. Target audiences include representatives from industry, consulting, government, environmental advocacy groups, and academia. Topics are not restricted specifically to environmental legislation or listed species, but should be relevant to the regulatory issues requiring attention in Alberta. Acceptance of the contributions will be based on originality of the work, relevance to the conference topic and the practice of biology, and overall submission quality.

An abstract must follow the format outlined below and be submitted electronically to pbiol@aspb.ab.ca by **August 30, 2013** for review. Please reference the "ASPB 2014 Conference" in the subject line. Within the abstract, please explain how the proposed paper or poster will complement the conference topic. If you do not receive email confirmation that your submission was received within five business days, please contact the ASPB directly at (780) 434-5765. Please note that the cost of preparing the proposal and attending the conference will be at the applicant's expense (including speaker discounted conference registration).

In addition, the 2014 ASPB Conference Committee is planning a panel session and would like to solicit topics for discussion. Please send your ideas to pbiol@aspb.ab.ca by November 30, 2013 for review.

Abstract Format

Title: Capitalize the first letter of each word except prepositions, articles, and species names. Species names should be spelled out at first use. Italicize scientific names of organisms.
Authors: Author's names will appear in ALL CAPITAL letters, using first initial(s) and full last name.
Affiliations: Each author should be listed by institution, department, division and country. Please state if the author/s are Professional Biologists (P.Biol. or R.P.Bio.)
Abstract Text: Abstracts should be submitted as **Microsoft Word** documents. Each abstract may contain up to a **maximum of 300 words,** including title, author's name and affiliations, and the abstract text. Use **12 point Times New Roman font** for text and symbol font for special and scientific characters.
Presentation Talk or Poster: Identify whether your abstract for consideration is for a talk (approx. 15 minutes) or poster. If you are submitting an abstract for a presentation, please also indicate if you'd be willing to present your topic as a poster should the Program Subcommittee be unable to accommodate your topic.

Alberta Society of Professional Biologists Endorses a New Home and Automobile Insurance Program!

Alberta Society of Professional Biologists is pleased to announce a new group insurance program for members. TD Insurance Meloche Monnex, in business for over 60 years, offers you preferred group rates for home, automobile, and travel insurance.

Join the growing number of customers who already enjoy greater savings with TD Insurance through preferred group rates. Most insurance companies offer discounts for combining your home and auto insurance policies, and for having a good driving record. What you may not know is that TD Insurance offers these savings, plus they offer preferred rates to ASPB members. Saving money has never been so simple!

Request a quote today and you'll automatically be entered in a draw for a chance to win a Lexus ES 300h hybrid or $60,000 cash. Contact them at **1-866-269-1371** or visit melochemonnex.com/ASPB to discover the many ways you can save with TD Insurance.

AN AFFINITY PARTNER PROGRAM RECOMMENDED BY
Alberta Society of Professional Biologists

ASPB Welcomes Its Newest Members

Professional Biologist P.Biol.

Rabab Abouelmagd Ahmed
Beatrice Amar
Wonnita Andrus
Jim Armstrong
Lachlan Ashby
Joseph O. Ayeni
Saikat Basu
Marie-Christine Belair
Krista Bird
Brett Bodeux
Kourtney Bradley
Christian Brazeau
Julia Burger
Lisa Burt
Theo Charette
Leslie Coe
Matthew Coombs
Denis Dean
Dwayne Donald
T. David Dougherty
Rod Drummond
Jason Duxbury
Chad Ellis
Xiaoying Fan
Joanna Fedoruk
Janna Foster-Willfong
Matthew Freeman
Heather Gerstmar
Matthew Ginn
Susanne Golby
Dapeng Gong
Monique Haakensen
Steven Henstra
Reed Hentze
John Hindley
Benjamin Hoggard
Sabina Isgandarova
Martin Jalkotzy
Bryan Jamieson
Jason Jones
Derek Keeping
Christopher Kolaczan
Jennifer Lange
Janine Lemire
Jason Lewis
Alana-Rose Lynes
Jaime Lypowy
Robin Mackey
Megan Marcotte
Meghan Marjanovic
Patricia Marlowe
Dinesh Mategaonkar
Chris Maundrell
Robert McNay
Prakash Chandra Mishra
Katherine Morrison
Liz Murray
Jessica Newman
Edward (Eddie) Noton
Sherry Nugent
Indongesit Obiefuna
Mandy Olsgard-Dumanski
Cory Olson
J. Charlie Palmer
Michael Peckford
Graeme Pelchat
Jake Powell
Jennifer Prive
Mandeep Purewal
Julie Robinson
Michael Robinson
Zulima Rodriguez
Susan Ross
Beckie Rozander
Janet Rygnestad
Jennie Ryman
Gregory Schatz
Amanda Schiaroli
Amanda Schultz
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Heather Whelan
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Karen Anderson
Sharif Azad
Brittney Baert
Kayla Balderson
Nicola Banger
Navjot Barney
Shannen Beckinsale
Jocelyn Beniuk
Carly Blashyn
Madelaine Bolton
Robbi Bonin
Kayla Brassard
Sheena Briggs
Sarah Brodie
Graham Bussiere
Andrew Campbell
Kaitlin Chestnutt
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The ASPB 2012 BIOS Submission Winners

The ASPB 2012 BIOS submission winners were Elise Savard, P.Biol. and Alison Beal, BIT for their ASPB 2012 Conference Summary article from the Fall 2012 edition. Congratulations!

Membership Statistics

Membership Type	Current Members
P. Biol.	859
BIT	284
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Associated	13
Honorary	6
Temporary Withdrawn	42
Total Members	1211